ARIZONA SILVER BELT.

VOLUME XXIII. No. 8.

GLOBE, GILA COUNTY, ARIZONA, THURSDAY, MAY 31, 1900.

Established 1878

THE MINING FIELD.

A Brief Portrayal of the Mining Industry of Arizona and the Great Southwest.

MINE AND MILL---SHAFT, CHUTE AND TUNNEL.

OGRESS BEING MADE BY PROSPECTOR AND PROMOTER-THE MINING INDUSTRY THROUGHOUT THE GLOBE COPPER BELT-A WEEKLY RESUME OF TRANSPIR-ING EVENTS TERSELY TOLD.

to the ton in silver.

P. J. Cole is in today from the Cole

& Goodwin mines, and reports that

the work of sinking is progressing sat-

isfactorily. The shaft has reached a

Monday. He will visit Des Moines,

has a force of miners employed sink-

Miners in cleaning out the shaft on

the copper mine owned by Rolling.

Rogers & Starr and James Wiley, un-

earthed a shovel, hammer and drill

which had been buried under 60 feet

of debris since 1878, when the shaft

caved in. The tools were fairly well

preserved, the handles of the bammer

and shovel being as sound as they

were twenty-two years ago. The mine

is bonded to Dr. Andrews and other

St. Louis parties. Very good ore has

been found in the bottom of the shaft.

Territorial and General.

The Star correspondent says that it

is understood the Copper Queen

smelter disposes of 800 tons of ore

The forty-nine incorporated com-

panies on the Comstock have levied

and have paid dividends to the amount

Montana mines have declared ss,-

There is probably more possibility

of economical and satisfactory work-

ing in the gas engine than in any

other form of power for the miner.

It can produce and furnish power in

regions almost inaccessible to any

other form of applied energy says the

The report of Eugene Braden, of the

Helena assay office, shows the total

production of metals in Montana for

the year 1899 amounted to 868,457,307,-

54, an increase of \$17,138,240.39 over

largely due to the copper output. The

786,834; copper, 840,941,905, and lead

Mr. Bragg, representing Cincinnati

capitalists who recently paid \$9,000 for

ranches in Peeples' valley to get the

water rights, has let a contract to drive

a tunnel 600 feet in to cross cut a

group of three claims on Placeritas

creek. The tunnel will cut the veins

at a depth of 200 feet. The ores carry

gold and are said to sample from \$1 to

The Treadwell mine in Alaska is

still holding its wonderful reputation

port shows a run of 540 stamps for 29

days, crushing 56,699 tons of ore, from

which was realized \$93,026, and 1,219

tons of sulphurets of a value of 852,553,

making a total bullion value of \$155,-

about \$39,000 for the month, the net

profits amounted to the neat little sum

Dr. Lennox informs the Star that

the Helvetia mines are producing over

110 tons of ore daily, all of a good

grade. The big strike in the Isle

Royal some days ago on the 180-foot

level, continues to grow in largeness.

The cross cut shows the ore body to

be 24 feet wide, which will give an-

average of 15 per cent copper. Four

feet of this is black oxides of copper,

which is very rich. From this body

thirty tons are extracted per day. The

\$60 per ton. -Prescott Courier.

gold values were \$4,810,156; silver, \$21,-

Mining & Scientific Press.

\$909,410.

of \$116,750.

607,000 dividends during five months

ing a shaft on the property.

MINERAL CREEK MINES.

chas. F. Lucas was over from the y mines last Sunday. He informed that he secured the contract to do the work on the company's mines, ad will put on a force of 60 men. The Ray company expects to start their depth of about 80 feet and is still in within a few days. They have ore. The intention is to sink 300 feet. een waiting for two gasoline engines which were expected to arrive any day. Mr. Lucas is developing his own nines, the Hot Tamale group, situated our miles northeast of Ray. They promising claims. Tom Haley as a fine property in the Monitor, Heary Perry, representing the Milvaukee Mining company, is working or 12 men on development work beir claims lie three miles northeast the Ray, and are good prospects.

Frank Gill returned from the Ray nines on Tuesday and will remain ere with his family for some time. Messrs. Kavanaugh & Gill recently ompleted their contract with the Ray company, having performed about 700 eet of development, and they turned be mine over to the company in fine shape. Frank thinks the Ray is the aggest mine in this section of Arizona, and he speaks highly of the gentlemen at the head of the company. Kavamangh & Gill are interested in some 30 bairas adjacent to the Ray.

STALLO TURQUOISE MINES.

on Sunday, in company with Dr. P. C. Stallo, County Treasurer A. H. Morehead and John Morehead, we visited the turquoise mines owned by Dr. Stallo and Bernard Oleovich of san Francisco. The mines are situated about 6 miles in a westerly direction from Globe, and comprise three laims, the Stallo, Ida and Ruth, Mr. Morehead, Sr., owning an interest in the latter. The principal development has been done on the Stallo claim, con-The other shafts on the Stallo are each in feet deep and there is an open cut H feet in length, of an average depth of 8 feet, from which turquoise has been taken. There are two shafts on the Ida, each 4x6, and 10 feet in depththe upper shaft showing turquoise scattered over the hanging wall. On the Ruth there is a shaft. 4x6, and 10 feet deep. These claims have been surveyed and are all well monumented with stone and posts plainly lettered. The formations are quartz, spar, granite and porphyry interspersed with tale. The claims lie in a basin near the foot of Sleeping Beauty mountain, in a highly mineralized section and the ground sloping to the south at an angle of about 50 degrees, is admirably situated for economical development. A good wagon road runs to within a half mile of the claims. They are surrounded by rich bearing mineral claims; to the outh and west the formation is goldbearing and to the north and east, opper-bearing. Dr. Stallo has shipped bout 100 pounds of turquoise, some of it very fine, to his partner in San

IMPORTANT STRIKE.

We are informed by President James Fleming of the Black Warrior Copper Co., Amalgamated, that an important strike of sulphide ore was made a few days ago on their Gold galch property, which is situated below the Continental and five and a alf miles west of Black Warrior. The te was struck at the water level, in old prospect shaft, at a depth of 10 The ledge is 16 feet wide and ore is black sulphide, and pyrites copper, the right kind for making d. The discovery insures the erecof an acid plant at an early date, pending its construction, leaching be suspended. The leaching works li be closed down today. The retheratory furnace at Black Warrior being torn down and will be rebuilt th larger. A force of 40 men are ding a road a mile and a half, to Gold gulch property.

ight in 120 pounds of ore, on Tues- ore, but the outlook for coke is good.

nently producing copper camps.

It is always business, and usually necessary to secure a United States patent to a mining location. The possession of such a title argues powerfully for the owner's behalf in the value of the property, says the Western Mining World. It is also almost an axiom that few mines can lay claim to real greatness or value until or unless it has been held up in court to an interest in the property, and in such likely case a United States patent provides "an ironelad potency" that is of most value when most needed. Then, too, it is a matter of profit to the publisher of a paper nearest the property and usually he has helped to day, which he states assays 1800 ounces make the property worth patenting by frequent and friendly allusion to it.

Henry Lovin is accounted one of the lucky ones of the county. About a year ago he received nearly \$6,000 for his interest in some placer claims upon which no work had been done; a few months ago he received \$2.500 Richard Welch left for the east on for a one-fourth interest in some claims he had never seen; last week he grab-Minneapolis and New York, and will staked a man who brought in ore from probably negotiate the sale of another a 30-inch vein that gave an assay of group of mining claims before return 42 40 ounces gold and 14.80 ounces siling. The Plain View mines which he ver to the ton. The location is fifteen recently sold to the American Mines miles easterly from Fort Mohave, Development Co. of Minneapolis, are His partner in the mine is a Mexican in charge of Dr. O. B. Bachman, who by the name of Jose Jeris. This man has been prospecting on the river several years past, but was unable to continne the work without assistance and therefore appealed to Mr. Lovin, who, with unfailing good luck, is in a fair way to reap a rich harvest. - Mohave

A mining man who came in from the Big Bug district yesterday says that the H. B. Clifford people have civil engineers in the field surveying a route for a line of railroad to connect various mining camps in that section of the county. The road will run from Huron, via McCabe and the Rebel Chief, within 2,000 feet of the celebrated Little Jessie and continue to Galena: thence to Eugene guich, up Eugene guleb, and over the divide on Lynx creek slope; thence to Senator and tributary mines, around Mt. daily, which is equivalent to a good Union, back by the Hamilton and Poland mines, down to the Great Belcher mine; thence up Eugene gulch, which forms the loop. It is also stated assessments aggregating \$80,000,000. that a large concentrating plant is to be erected on the Agaa Fria, near the Val Verde smelter. Prescott Prospect.

situation Morrison, Kekewich & Co. esting of three shafts; one 24 feet with of 1900, towit: Amalgamated, \$3,000,- of London, said: "The American repdrifts northwest and southwest. Some | 000; Anaconda, \$2,400,000; Boston & resentatives have again looked on very good turquoise has been taken | Montana, s2,700,000; Florence, s22,000; with indifference, perhaps buying a from this shaft and seams of turquoise Montana Coal & Coke, 860,000; M. O. few warrants on balance. Consumers are visible in the shaft and drifts. P. company Heinze. \$80,000; Parrot. consider they have been badly treated, and are adopting a sulking attitude. Large purchases must be made shortly, but they always refuse to buy on a sagging market. Bears have summoned up some of their old pluck, and the short account has been considerably increased. Some shrewd people think that the Americans have purposely encouraged these bear sales. It is well to remember that the English market is extremely limited, and absolutely under the control of the Americans, who could put up prices whenever it suited them. Probably the whole of the present movement is the preceding year, the increase being in connection with shares, and a recovery will occur when least expected"

> The Octave gold mine, near Stanton course of a few weeks will surround a gan School of Mines. mine constantly feeding a 40-stamp | Commenting upon the hegira to mill, says the Phoenix correspondent Cape Nome the Mining & Scientific of the Los Angeles Herald. The Press says: The exodus to the north rapid growth of the new camp is one that began in 1897, and is now as great of the marvels of mining in Arizona. as then, is depleting the mining states The mine has been developed by a of many of their best miners, many wealthy syndicate of men extensively of whom will not return. The great interested in mining in various parts expenditure consequent upon this of the country, and large veins of fair movement has already been commentas a producer. The last monthly re- grade rock have been traced to great ed upon; a more serious economic depth, disclosing a quantity of ore suf- question is who shall take the places ficient to supply the large mill for of these men, skilled in every departyears. The plant is modern and cap-ment of scientific mining. Their deable of handling twice the amount of parture is a manifest loss to the minore an ordinary 40-stamp plant can ing industry of the state from whence 750. The working expenses being receive. Besides the development of they go. The charm of "a new rethe well defined veins, prospectors region" lures them from finer conditions cently have discovered gold in the existent in nearly every locality that porphyry, which, according to the ac- they leave, and who will fill their cepted rules of mining, should be bar- places is an important problem. Those ren. The porphyry carries from \$8 to who swell the tide of travel to the \$12 to the ton.

final entry of the Little Daisy mine at take their places will be different in Jerome, says the Journal-Miner, some important regards. Of course, This, as far as known, is the smallest the work of development will go on, mine, so far as area is concerned, ever even if men of lesser intelligence are entered, and is apparently the biggest imported to fill the places of departing mine, on record, area considered and American miners. There is enough of from the showing of ore now in sight. | turbulent element now in the mines on. Stewart has made an important vents them for the claim being \$5. There is a are not in harmony with our institusame class and of a somewhat higher are valuable and attracting much at-

Never in the history of the camp has has been encountered, and there is the outlook been so flattering for Hel- every indication that the entire claim vetia being one of the large perma- is within the limits of the mammoth ore body of the great United Verde mine. The shaft is not yet deep enough to demonstrate this to a certainty, but sinking will be continued on it. Should this theory prove correct, even this little claim will afford a competence to Mr. and Mrs. Fisher.

The Great Belcher mine, which is being operated by H. B. Clifford & Co., New York, has started the ball HER rolling, says the Journal-Miner. This by some pirate with a shadowy claim property has caused a great deat of excitement in the Big Bug district on account of its immensely large bodies of ore. A large force of men is being worked day and night and beside having very large bodies of ore it is getting much richer as work progresses. The next property to fall in line in that district seems to be the First Home mine, which is situated about 6,000 feet above the Great Belcher in the same gulch. Ed Block and B. H. Gray of Prescott, have been developing this property for a year and it has always been considered the making of a very valuable mine. They have always had large bodies of good ore, but this new strike has settled the question beyond the shadow of a doubt. They have just encountered a chute of ore at the 180-foot level which is of higher grade than anything found heretofore in the mine. It runs very heavy in lead, with big gold and silver values, with a little The pine-clad hills of the Sierras Ancopper in connection.

Speaking of the arrest of J. Henry Woods, secretary of the Cobre Grande company, on a charge of perjury, the Nogales Vidette says: This is only one of the many victories which the Greene Consolidated Copper company people have won over the Cobre Grande Copper company people in the great legal battle being fought for the possession of the mammoth copper mines in the Cananca mountains in the state. of Sonora, and great interest is being manifested by an ever corious public as to the final outcome of a great game that has been bitterly contested foot by foot over two republies at a cost of possibly a million to play and which means untold millions to the winners. Notwithstanding the fact that reports are being circulated here to the effect that the Cobre Grande Copper company people are preparing to swipe the Greene people off the face of the earth, it is an ondeniable fact that at the present writing the W. C. Greene people are about the only "pebbles on the beach" in the vicinity of the big copper camp out in the Arizpe dis-Writing on May 11, of the copper triot in the state of Sonora.

O. C. Farrington writes the Enable, and in some respects far surcountries. Not only has a large and try been secured and richly and attractively installed, but the exhibits of metallurgical and manufactured products made by various firms and corporations are also very extensive and serve to favorably impress the foreign visitor as to the extent and variety of our resources. The Copper Queen Mining company displays the finest specimens of malachite and azurite which have ever come from the mines. The display attracts much delighted comment. Among specimens of spe-Yavapai county, which six months cial interest mentioned are those of ago was a prospect, has given rise to copper after cuprite from the Old Donew camp that is doubling its popu- minion of Globe. Ariz., which are in lation in short intervals, and in the the collection exhibited by the Michi-

north do their talking and thinking Mrs. Elizabeth C. Fisher has made in English; it may be that those who It contains only seven hundred and of this west half of America, and it 4.26 per cent of copper. The two being negotiated for under bond and thirty-seven thousandths of an acre, were not well to have the number of lower cross cuts have not been driven the district is growing in prosperity. The Wolfram claims about Russelville vents them from blowing in the for the claim being \$5. There is a green part in harmony with our justite.

ARIZONA MINERAL.

Mountains Seamed With Gold. Silver, Copper and Other Valuable Metals.

MINES ARE WEALTH PRODUCERS.

SOME OF HER FAMOUS MINES AND RICH DISTRICTS-THEY HAVE YIELDED MILLIONS AND YET THE MINING INDUSTRY OF ARIZONA IS ONLY IN ITS INFANCY.

is more prolific in concealed wonders of nature in the mineral line than Arizona; her hills are seamed with the richest gold and silver ore; copper is found in remarkable deposits, from the Grand Canyon of the Colorado on the north to the international line on the south; not a mountain range is known where the reverberating sound of the pick and drill is not heard. The prospector's footsteps have traversed the vast mesa lands between the Hassayampa and the Colorado river, rich auriferous ground has been encountered throughout that entire region. cha have exposed some of the fluest specimens of gold and silver of any portion of this vast area. The coal fields of the north, extending from Gallup, New Mexico, into this terri tory, south and westward from St. John are untouched so far as production is concerned; the magnificent onyx of Yavapai and the same stone on the upper Cave creek in this county are unsurpassed in their texture and color. Black onyx on the Grand canvon and asbestos have been discovered. That her mines are wealth producers and not pockets from which small quantities of rich mineral is extracted and barrenness follows, is proven by the old Vuiture mine which as a gold producer has made more fortunes than the entire sum expended in prospecting in Arizona would amount to. For over ten years one hundred stamps were running day and night crashing over three hundred tons every twenty-four hours. The Silver King in Pinai county sent its rich surface ores to San Francisco, freighting it by teams to Yuma and then by water when the freight rates were over fifty cents per pound. The Grand Central and other silver mines of Tombstone have sent out their gineering & Mining Journal that the millions to the world's supply of exhibit of the United States at the precious metals. The Clifton copper. Paris exposition in the departments of mines shipped by ox teams its surface they have a way to save at least half mining and metallurgy is acknowl- ores to New Mexico and still left a edged on all sides to be very credit- profit to its owners. The old Mowry passes the similar displays of other days of civil strife for its lead, which was carried from there to till the dethoroughly representative collection mand in the army of the southern conof the ores and minerals of the coun-federacy. All along the southern tier of counties in this territory are found traces of smelters erected by the Jesuit fathers who first hoisted the torch of civilization in this land. And

> of May 19 published an interesting article on the Ray Copper Mines, Limited, written by Mr. Alexander Hill, from which we make the following excerpt: About 54 miles up Mineral creek from Kelvin a broad belt of quartz an opinion as to how long the war porphyry crosses the creek, continning may last. But the probability seems in an easterly direction toward Globe to be that it will be impossible to reand in a westerly direction toward the sume gold mining on the Randt duronce famous Silver King. This belt ing the present year or, at all events, varies in width from 500 to 2,000 feet | that the resumption cannot take place and is easily distinguished by the red very much before Christmas on any coloration caused by the red oxide of considerable scale. When the war is iron stain. At the point where claims | ended it will be necessary to collect owned by the Ray Copper Mines, Lim- native laborers in large numbers; and, ited, are situated, the valley of Miner- apart from that, there must be a very al creek forms a sort of a basin having considerable delay in making everya width of about 2 miles, the hills ris- thing ready for active gold mining. ing to considerable height on either That being so, it is in the highest deside. The Ray Copper Mines, Limited. gree likely that money will remain have devoted all their energy to the exploration of the quartz porphyry of the year. formation. At the Ray mine, where the principal works are located, a shaft has been sunk to the depth of from Russelville, has a population of 344 feet. From this shaft cross cuts over 300 according to the Prospector. approximately at right angles to the At the Peabody mine 165 Mexican general direction of the belt have been miners are on the pay roll and two run at three levels. The longest of carloads of copper ore is shipped to these, which is at the depth of 223 feet | El Paso daily. The Peabody is under below the surface, is over 400 feet in the supervision of H. J. Clifford. At length, and both ends are still in ore. the Mammoth mines some 35 or 40 The whole of this cross cut shows cop | Americans are employed and the per in the form of narrow films or property is looking exceedingly well. veins and speeks of sulphides dissemi- These mines are being opened by an nated through the mass mostly in the eastern company and are in charge of form of glance, but occasionally in Mr. S. S. Campbell. Messrs. Perry, that of pyrite. The average of this Mitchell and Wein own some pron iscross cut from end to end, calculated ing copper claims which are also doing from samples taken every 5 feet, is

yet the half has not been told of our

The Engineering & Mining Journal

boundless wealth in minerals. Ex.

No portion of the western continent | main cross cuts drifts are driven east and west, all of which carry the same class and value of ore. The construction of a railroad to the Southern Pacific railroad or to the Santa Fe railroad at Phoenix is a necessity, and the company is taking steps to this effect. Some such a line would pay well, as there is quite a considerable amount of traffic. As the company anticipates a large output in the near future, the extent and value of the mine justifying such an expectation, it is very wisely doing all it can to carry into effect the rail-

> Two feet of \$150 gold ore has been struck in the lower level of the Ora. Piata mine. Mohave county. There is stoping ground above for eight feet.

> A thousand shares of stock in the Quincy or Tamarack copper mines of Michigan, would insure an income of \$6,090 per annum. A like number of shares in the Calumet and Heela would return about \$33,000 yearly. The Treadwell mine, Alaska, pays about \$1,500 and the Homesteak of South Dakota, about \$6,000 on each thousand shares. A thousand shares of stock in a million share company means a respectable income in many mining corporations.says an exchange.

The Calumet and Hecla, according to independent assays recently made. is losing about four-tenths of one per cent of copper in the tailings. By these figures the loss is about eight pounds of copper to the ton of ore stamped, from which sixty-eight pounds of copper is saved in the mills. The copper now being jost is so fine that none of the devices hitherto in use have succeeded in catching it. The value of the copper in the tailings of the Calumet and Hecla for the past year, at this rate, figuring on the present price of copper, would be about one and one-half million dollars. And the mine managers think

The Gilbert correspondent of the Prescott Prospect says: The Saginaw Lumber company is running about 40 tons of ore through its mill every 24 hours and is cleaning up good, satisfactory gold bricks. It is the intention of the company to very soon add 50 or 55 stamps to its 10-stamp mill It will be very easy for the company to keep the additional stamps pounding away as it has a mountain of ore. The work being done at the present time is for the purpose of prospecting the ore body and demonstrating its extent. There is plenty of water on the property for all purposes.

The London Statist says: It would be rash even at this time to venture scarce and dear during the remainder

Johnson, the prosperous mining camp in the Dragoons, three miles well. Several groups of mines are